CW#37: Composite Area

Geometry

Tuesday, November 3rd

Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ TP:\_\_\_\_\_

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| You will be able to compute the area of composite figures by adding or subtracting areas. | |
| Criteria for Success: Did you…   * Break the shape into smaller, recognizable shapes * Chose the correct formula for each shape. * Use either addition or subtraction to find the total area of the shape. * Examine your answer: Does it make sense? Does it answer the question? | |
| 1. Find the area of the figure below.    Area = \_\_\_\_\_\_\_\_\_\_\_\_ | 2. *ABDE* is a square with a side length of 9 units. If  *ED* = *DC*, what is the area of?  9  *A*  *E*  *D*    *C*  *B*  Area = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| 3. A new racetrack is being designed and will be composed of a long rectangle with a semi-circle on each of the shorter sides as shown in the diagram below. All measurements are given in yards. What is the area of the racetrack?  75  20  Area = \_\_\_\_\_\_\_\_\_\_\_\_ | 4. Find the area of the figure below.    Area = \_\_\_\_\_\_\_\_\_\_\_\_\_ |

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| You will be able to compute the area of composite figures by adding areas…Continued… | |
| Directions: Complete the following problems in your notebook if you need more room.  Find the area of the figures below. | Criteria for Success: Did you…   * Break the shape into smaller, recognizable shapes * Chose the correct formula for each shape. * Use either addition or subtraction to find the total area of the shape. * Examine your answer: Does it make sense? Does it answer the question? |
|  | ../../../../../Desktop/Screen%20Shot%202015-11-01%20at%2012.37.26%20PM |
| ../../../../../Desktop/Screen%20Shot%202015-11-01%20at%2012.37.50%20PM | ../../../../../Desktop/Screen%20Shot%202015-11-01%20at%201.01.32%20PM |
| ../../../../../Desktop/Screen%20Shot%202015-11-01%20at%2012.38.03%20PM | ../../../../../Desktop/Screen%20Shot%202015-11-01%20at%2012.40.37%20PM |
| ../../../../../Desktop/Screen%20Shot%202015-11-01%20at%2012.44.01%20PM | ../../../../../Desktop/Screen%20Shot%202015-11-01%20at%2012.42.57%20PM |
| Challenge Problems | |
| 1. Create a word problme about a real-word situation involving perimeter and area of a composite shape. 2. Draw and label two composite shapes that have the same area, but have different perimeters. | In the quadrilateral ABCD shown below, the side lengths are as shown. If the area of ABCD is 198 square units, what is the value of x?  A  B  C  D  4x  7x  5x  4x |